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# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**8594443 (S/N 1826)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) FG-460 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KC06228625</b>	KC107535	---
Sample Date		Client Info		<b>25 Jun 2024</b>	27 Sep 2023	---
Machine Age	hrs	Client Info		<b>9598</b>	5488	---
Oil Age	hrs	Client Info		<b>0</b>	5488	---
Filter Age	hrs	Client Info		<b>0</b>	5488	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>2</b>	1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	3	---
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>3</b>	7	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

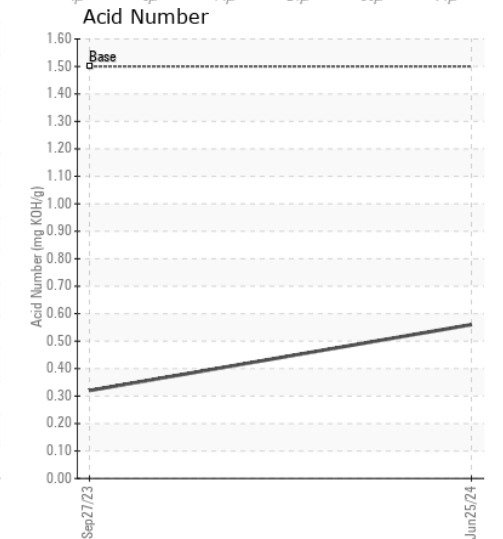
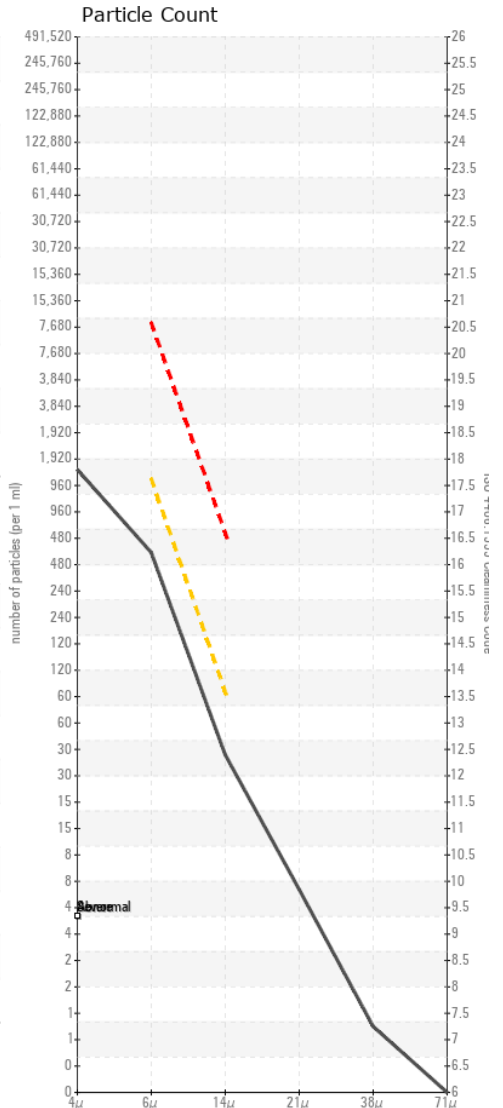
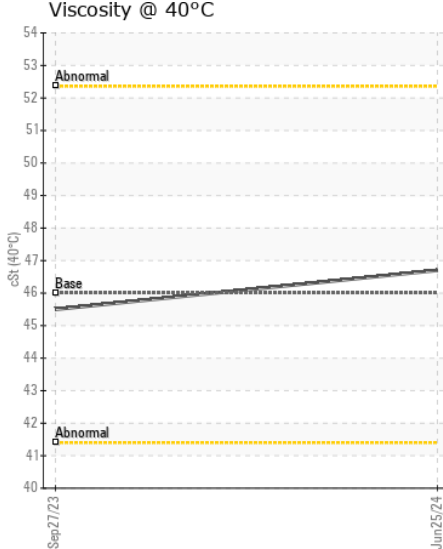
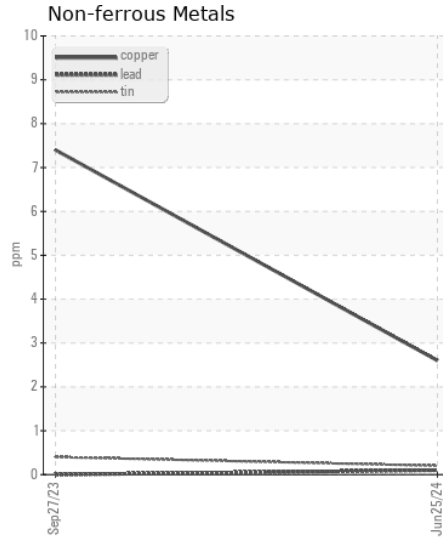
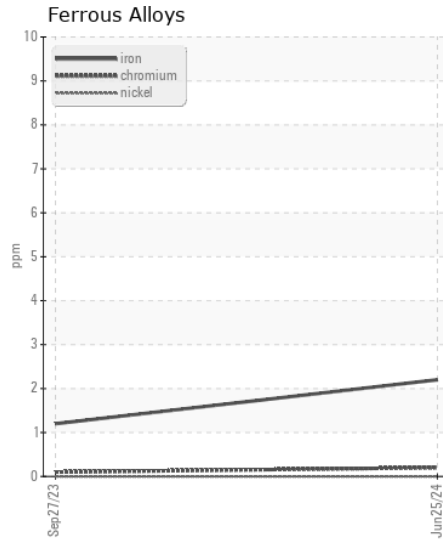
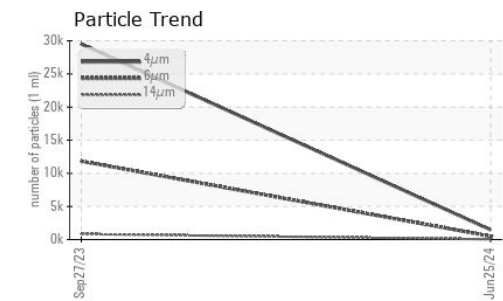
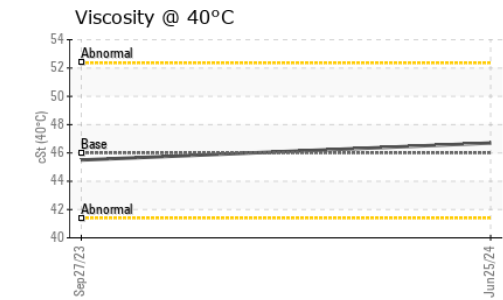
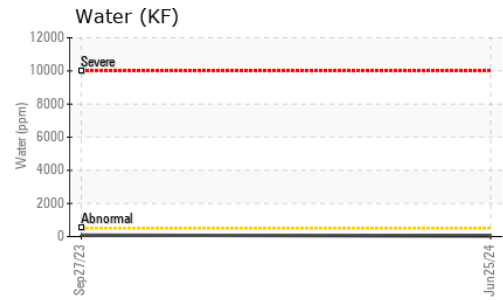
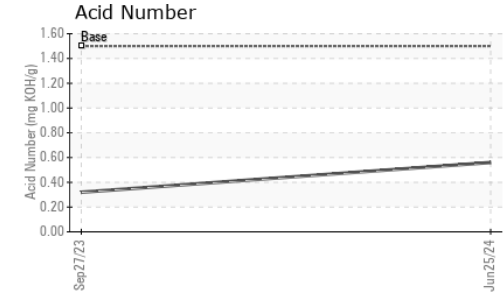
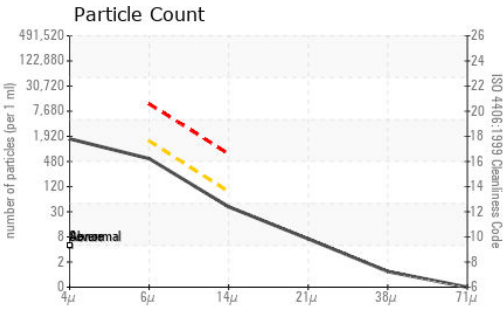
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Water	%	ASTM D6304	>0.05	<b>0.003</b>	0.008	---
ppm Water	ppm	ASTM D6304	>500	<b>31</b>	88.6	---
Particles >4µm		ASTM D7647		<b>1464</b>	29502	---
Particles >6µm		ASTM D7647	>1300	<b>494</b>	▲ 11832	---
Particles >14µm		ASTM D7647	>80	<b>35</b>	▲ 831	---
Particles >21µm		ASTM D7647	>20	<b>6</b>	▲ 181	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	▲ 9	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/17/13	<b>18/16/12</b>	▲ 22/21/17	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	1	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Calcium	ppm	ASTM D5185m		<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m	500	<b>185</b>	100	---
Zinc	ppm	ASTM D5185m		<b>172</b>	83	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	<b>0.56</b>	0.32	---
Visc @ 40°C	cSt	ASTM D445	46	<b>46.7</b>	45.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC06228625  
**Lab Number** : 06228625  
**Unique Number** : 11112118  
**Test Package** : IND 2  
**Received** : 05 Jul 2024  
**Tested** : 08 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Don Baldrige

**CLARKSON SPECIALTY LECITHINS**  
 101 MERCURY DR, SUITE 1  
 CHAMPAIGN, IL  
 US 61822  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)